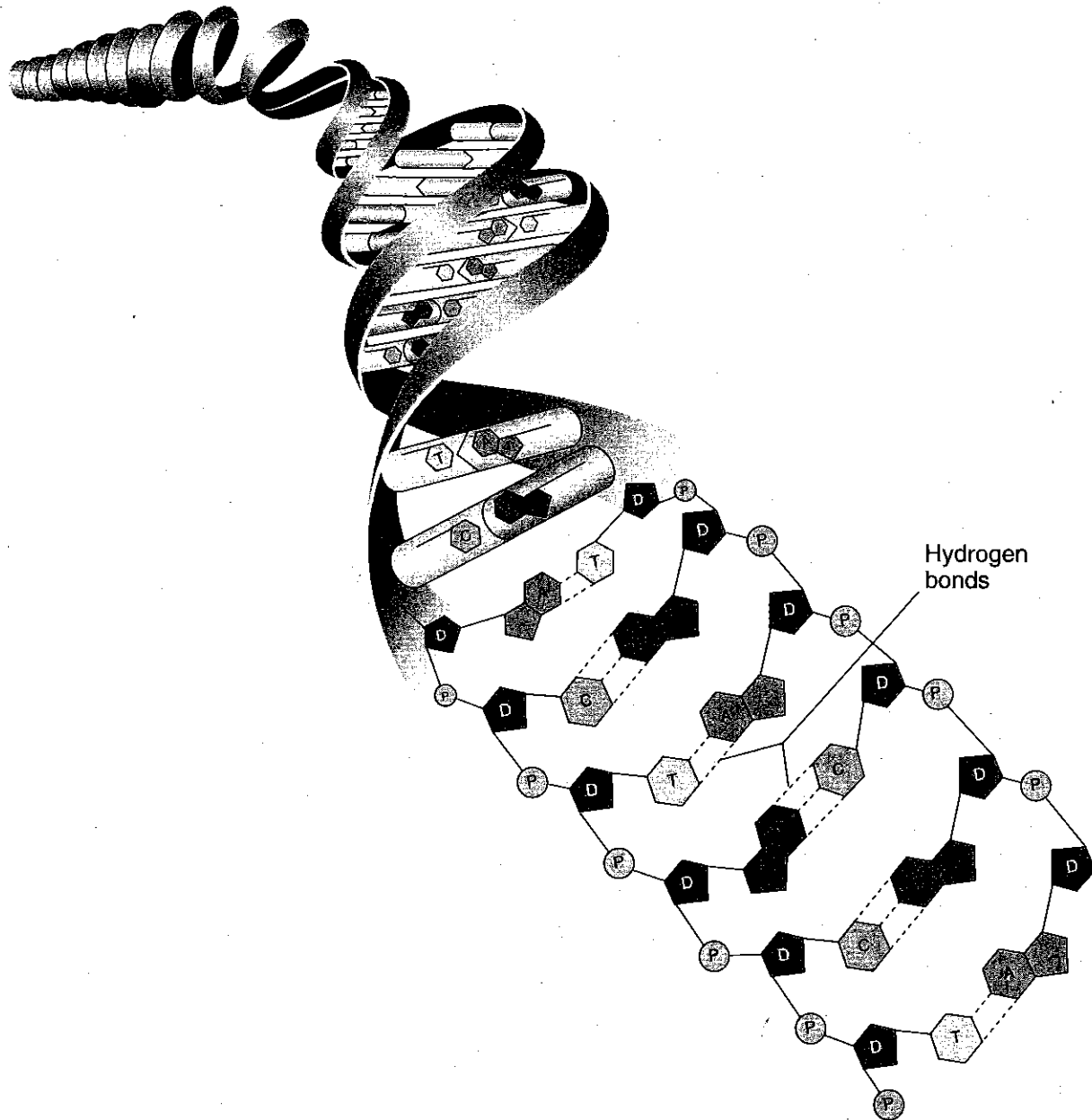


**TRANSPARENCY 28 DNA**

**TRANSPARENCY 28 DNA****USE WITH CHAPTER 13, SECTION 13.1**

1. What are the components of a nucleotide? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. What are the four nitrogen bases in DNA? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. What holds the base pairs together? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. How does the chemical structure of cytosine and thymine differ from that of adenine and guanine? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
5. What is the nature of the chemical bond that joins the sugar of one nucleotide to the phosphate group of the next nucleotide? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. Describe the shape of a DNA molecule. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. What distinguishes one species from another on the genetic level? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. What is the Human Genome Project? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_